

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement accompanies the new patent application submitted herewith of the following Inventors: Takao ABE; Hiroshi MATSUNAGA; Ado MIHIRA; Chisato SATO; Hideki USHIROGOCHI; Koichi SATO; Tsuyoshi TAKASAKI; Aranapakam Mudumbai VENKATESAN and Tarek Suhayl MANSOUR;

For: PROCESS FOR PREPARING 6-ALKYLIDENE PENEM DERIVATIVES.

1. Preliminary Statements

In accordance with 37 CFR 1.97 and 1.98, Applicants submit herewith patents, publications, or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) the information is material to the examination of this application; (iii) additional information material to the examination of this application does not exist; (iv) the information, protocols, results and the like reported by third parties are accurate or enabling; or (v) the information constitutes prior art to the subject invention.

2. ☒ Previously Cited Information

No copy of the patents, publications or other information cited on the attached form PTO-1449 is enclosed because it has been previously cited by or submitted to the Office in a prior application which is relied upon for an earlier filing date under 35 USC 120. Prior application is Application Number 10/427,666 filed on May 1, 2003 of Takao ABE; Hiroshi MATSUNAGA; Ado MIHIRA; Chisato SATO; Hideki USHIROGOCHI; Koichi SATO; Tsuyoshi TAKASAKI; Aranapakam Mudumbai VENKATESAN and Tarek Suhayl MANSOUR for PROCESS FOR PREPARING 6-ALKYLIDENE PENEM DERIVATIVES.

CERTIFICATE OF MAILING 37 CFR §1.10

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service on the date written below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL989343180US addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date

10-24-03

Regina Benson


Regina Benson

3. ☐ Newly Cited Information
A legible copy of the patents, publications or other information cited on the attached form PTO-1449 is enclosed, except that no copy of a pending U.S. application is enclosed.
4. ☐ Concise Explanation
Documents cited above which are not in the English Language
a. ☐ have been explained in the specification.
b. ☐ have an abstract (or other concise explanation) in English enclosed or, if readily available, a translation into English of the document is enclosed.
5. Form PTO-1449 is enclosed in duplicate.


John W. Hogan, Jr.

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	
AM100905 P1					

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number (If known)	Kind Code (If Known)			
	1.	U.S. 4,485,110		N. F. OSBORNE	11-27-1984	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (If Known)				
	2.	EP	0 041 768	B1	Beecham Group PLC	12-16-1981		<input type="checkbox"/>
	3.	EP	0 120 613	A1	Beecham Group PLC	10-03-1984		<input type="checkbox"/>
	4.	EP	0 150 781	A1	Beecham Group PLC	08-07-1985		<input type="checkbox"/>
	5.	EP	0 154 132	B1	Beecham Group PLC	09-11-1985		<input type="checkbox"/>
	6.	EP	0 150 984	B1	Pfizer Inc.	08-07-1985		<input type="checkbox"/>
	7.	EP	0 210 814	A1	Beecham Group PLC	02-04-1987		<input type="checkbox"/>
	8.	EP	0 210 065	A1	Beecahm Group PLC	01-28-1987		<input type="checkbox"/>
	9.	PCT	WO87/00525	A1	Beecham Group PLC	01-29-1987		<input type="checkbox"/>
	10.	EP	0 321 186	B1	Beecham Group PLC	06-21-1994		<input type="checkbox"/>
	11.	EP	0 321 187	B1	Beecham Group PLC	06-21-1989		<input type="checkbox"/>
	12.	EP	0232966	B1	Beecham Group PLC	08-19-1997		<input type="checkbox"/>
	13.	PCT	WO93/03042	A1	SmithKline Beecham PLC	02-18-1993		<input type="checkbox"/>
	14.	PCT	WO94/10178	A1	SmithKline Beecham PLC	05-11-1994		<input type="checkbox"/>
	15.	PCT	WO95/28935	A1	SmithKline Beecham PLC	11-02-1995		<input type="checkbox"/>
	16.	PCT	WO95/17184	A1	SmithKline Beecham PLC	06-29-1995		<input type="checkbox"/>

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	17.	BUSH, K., Antimicrob. Agents Chemother. 1993, 37, 851	<input type="checkbox"/>
	18.	YANG, Y.; JANOTA, K.; TABEL, K.; HUANG, N.; SEIGAL, M.M.; LIN, Y.I. RASMUSSEN, B.A. AND SHLAES D.M., J. Biol. Chem. 2000, 35, 26674-26682	<input type="checkbox"/>
	19.	OSBORNE, N.F. et al., "A Novel and Stereocontrolled Synthesis of (5R)-(Z)-6-(1-Methyl-1,2,3-Triazol-4-Ylmethylene)Penem-3-Carboxylicac ID, A potent Broad Spectrum Beta-Lactamase Inhibitor", JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL COMMUNICATIONS, CHEMICAL SOCIETY. LETCHWORTH, GB, no. 6, 1989, pages 371-373, XP000985235,	<input type="checkbox"/>

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.